

## STN Columbus

\* \* \* \* \* \* \* \* \* \* Welcome to STN International \* \* \* \* \* \* \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 JUL 20 Powerful new interactive analysis and visualization software,  
STN AnaVist, now available  
NEWS 4 AUG 11 Derwent World Patents Index(R) web-based training during  
August  
NEWS 5 AUG 11 STN AnaVist workshops to be held in North America  
NEWS 6 AUG 30 CA/CAplus -Increased access to 19th century research documents  
NEWS 7 AUG 30 CASREACT - Enhanced with displayable reaction conditions  
NEWS 8 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 06:49:25 ON 20 SEP 2005

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 06:49:33 ON 20 SEP 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 SEP 2005 HIGHEST RN 863382-78-9  
DICTIONARY FILE UPDATES: 18 SEP 2005 HIGHEST RN 863382-78-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

# STN Columbus

```
*****
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,      *
* effective March 20, 2005. A new display format, IDERL, is now          *
* available and contains the CA role and document type information. *
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>  
Uploading structure  
screen 1996

L1 SCREEN CREATED

=>  
L2 STRUCTURE UPLOADED

=>  
L3 QUE L2 AND L1

=> s sam 13  
SAMPLE SEARCH INITIATED 06:50:19 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 850 TO ITERATE

100.0% PROCESSED 850 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 15251 TO 18749  
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L2 AND L1

=> log h  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 0.86 1.07

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 06:50:28 ON 20 SEP 2005

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'REGISTRY' AT 06:54:03 ON 20 SEP 2005  
FILE 'REGISTRY' ENTERED AT 06:54:03 ON 20 SEP 2005  
COPYRIGHT (C) 2005 American Chemical Society (ACS)

COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 0.86 1.07

=>  
Uploading structure

screen 1996

L5 SCREEN CREATED

=&gt;

L6 STRUCTURE UPLOADED

=&gt;

L7 QUE L6 AND L5

=&gt; s 17 sam

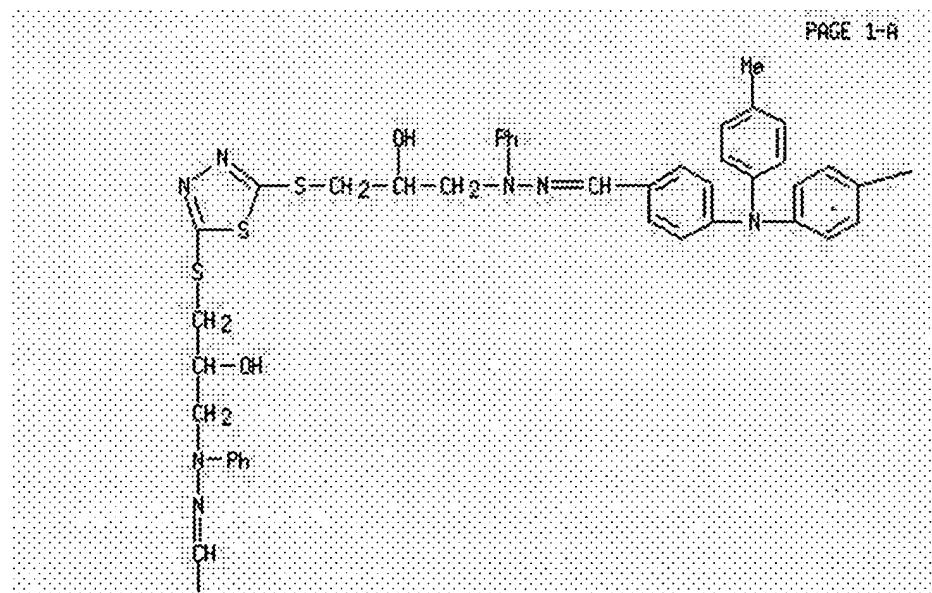
SAMPLE SEARCH INITIATED 06:54:47 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 11363 TO ITERATE17.6% PROCESSED 2000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

37 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 220873 TO 233647  
PROJECTED ANSWERS: 3335 TO 5073

L8 37 SEA SSS SAM L6 AND L5

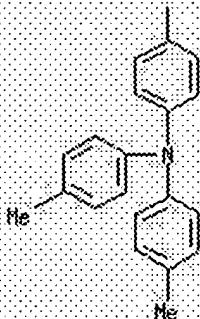
=&gt; d scan

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
IN Benzaldehyde, 4-[bis(4-methylphenyl)amino]-, 1,3,4-thiadiazole-2,5-diylibis[thio(2-hydroxy-3,1-propanediyl)]bis(phenylhydrazone) (9CI)  
MF C62 H60 N8 O2 S3

PAGE 1-B

Me

PAGE 2-A

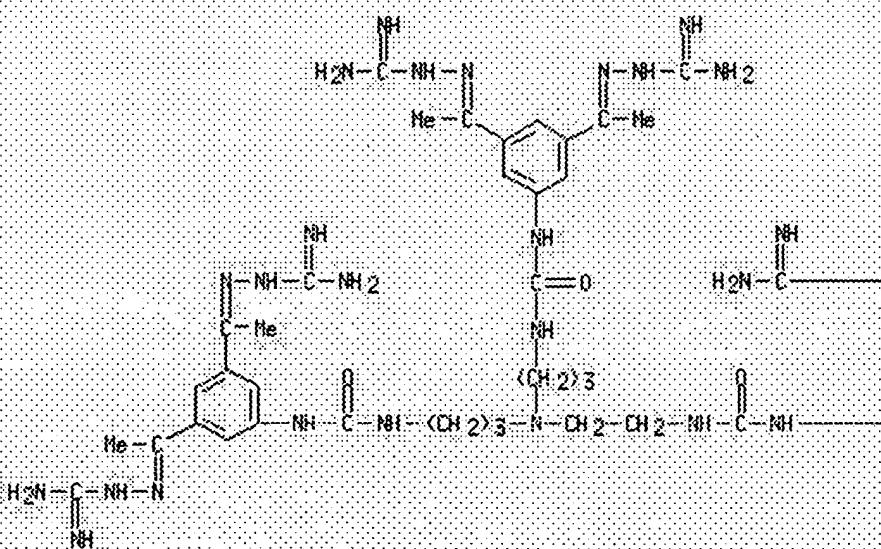


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

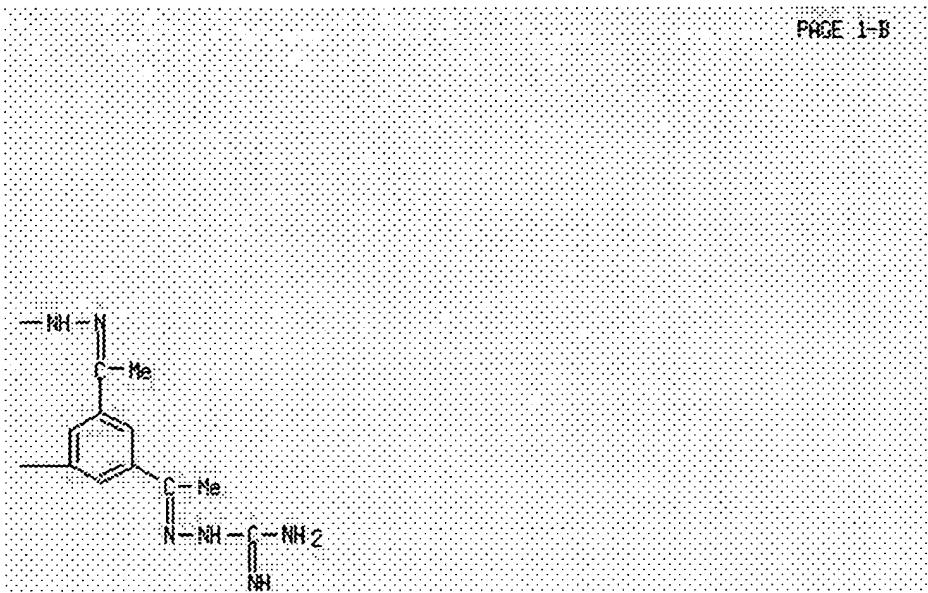
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Hydrazinecarboximidamide, 2,2',2'',2'''-[[[2-[[[3,5-bis[1-[(aminoiminomethyl)hydrazono]ethyl]phenyl]amino]carbonyl]amino]ethyl]imino]bis(3,1-propanediyliminocarbonylimino-5,1,3-benzenetriylidene)tetraakis- (9CI)  
 MF C47 H73 N31 O3  
 CI COM

PAGE 1-A



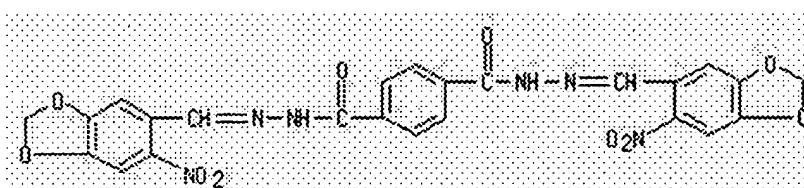
PAGE 1-5



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

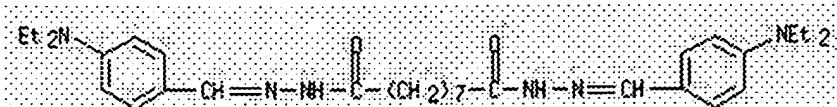
L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 1,4-Benzenediacarboxylic acid, bis[[6-nitro-1,3-benzodioxol-5-yl)methylene]hydrazide] (9CI)  
 MF C24 H16 N6 O10



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

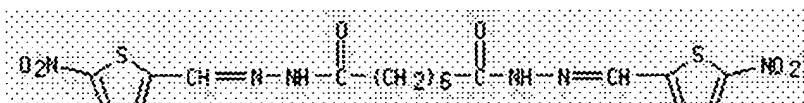
L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Nonanedioic acid, bis[[[4-(diethylamino)phenyl]methylen]hydrazide] (9CI)  
 MF C31 H46 N6 O2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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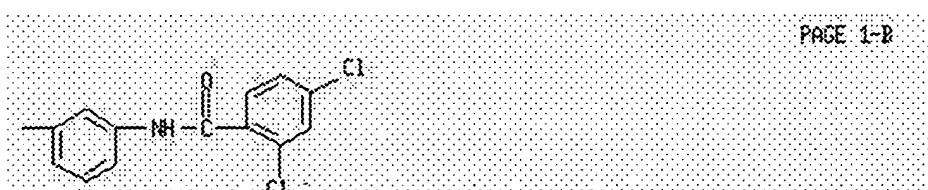
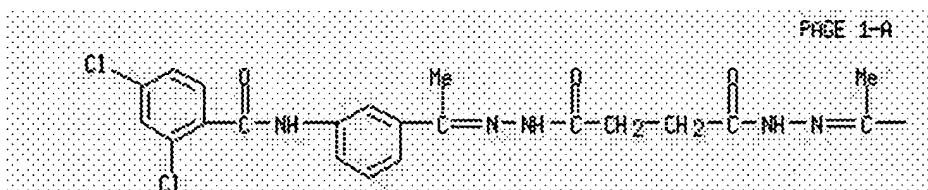
L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Octanedioic acid, bis[[5-nitro-2-thienyl)methylene]hydrazide] (9CI)  
 MF C18 H20 N6 O6 S2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Butanedioic acid, bis[[1-[3-[(2,4-dichlorobenzoyl)amino]phenyl]ethylidene]hydrazide] (9CI)  
 MF C34 H28 Cl4 N6 O4



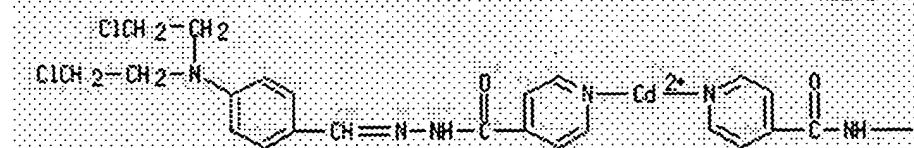
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Cadmium(2+), bis[(4-pyridinecarboxylic acid- $\kappa$ N1)

[ [4-[bis(2-chloroethyl)amino]phenyl]methylene]hydrazide] - (9CI)  
 MF C34 H36 Cd Cl4 N8 O2  
 CI CCS, COM

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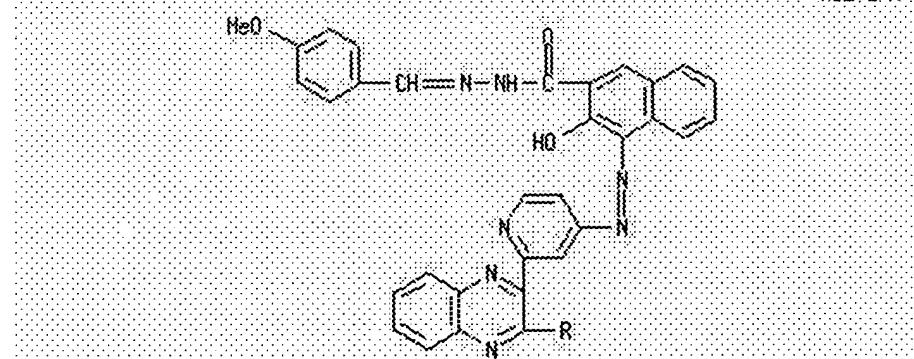
PAGE 1-B

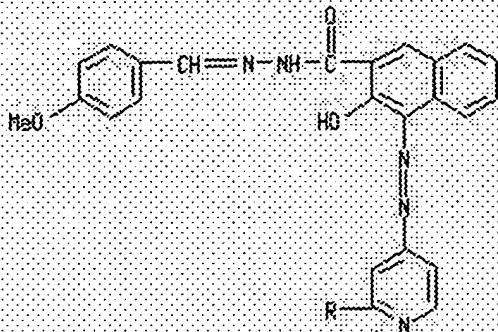


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 2-Naphthalenecarboxylic acid, 4,4'-[2,3-quinolinediylbis(2,4-pyridinediylazo)]bis[3-hydroxy-, bis[[[(4-methoxyphenyl)methylene]hydrazide]] - (9CI)  
 MF C56 H40 N12 O6

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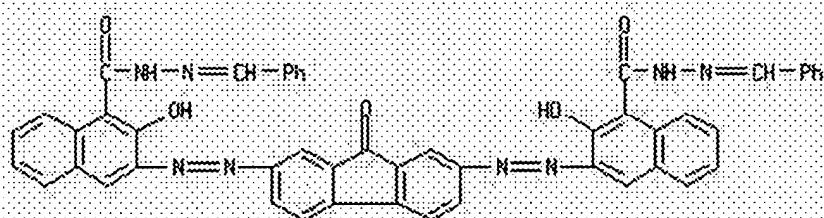




\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

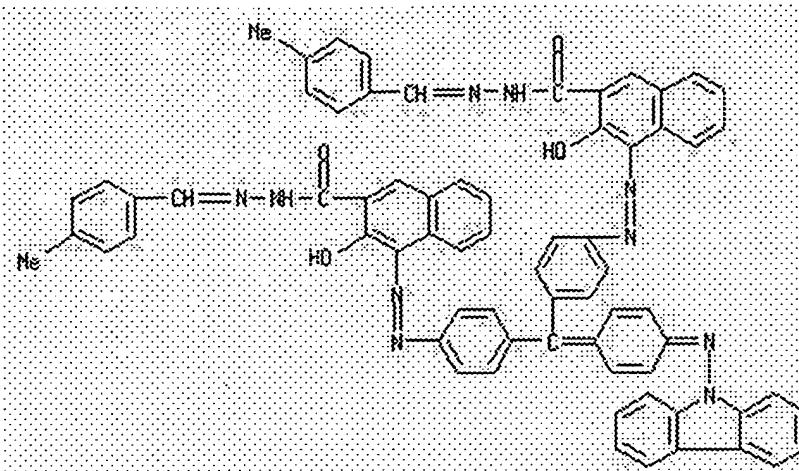
L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 1-Naphthalenecarboxylic acid, 3,3'-[{(9-oxo-9H-fluorene-2,7-diy1)bis(azo)]bis[2-hydroxy-, bis[(phenylmethylene)hydrazide] (9CI)  
 MF C49 H32 N8 O5



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

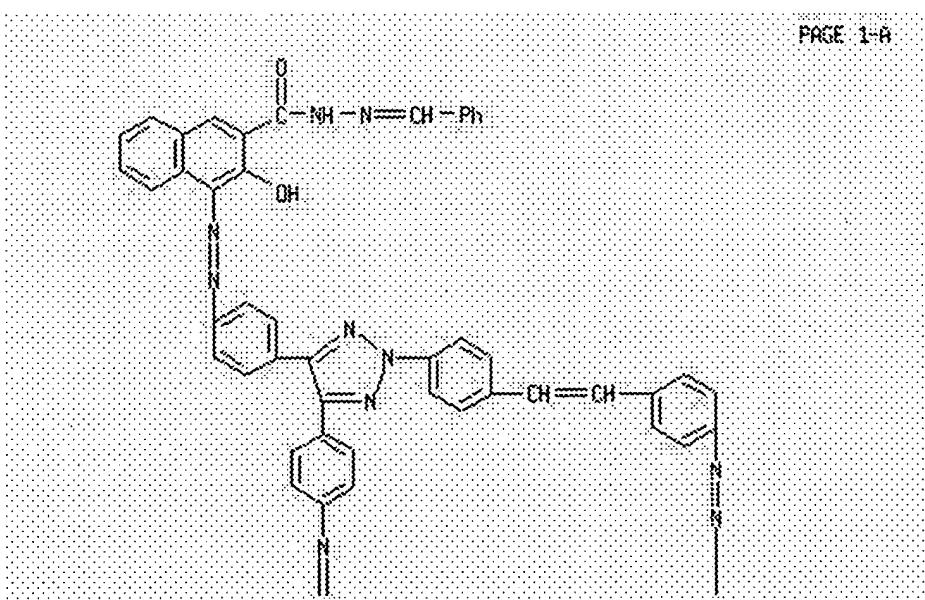
L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 2-Naphthalenecarboxylic acid, 4-[[4-[[4-(9H-carbazol-9-ylimino)-2,5-cyclohexadien-1-ylidene] [4-[[2-hydroxy-3-[[[(4-methylphenyl)methylene]hydrazino]carbonyl]-1-naphthalenyl]azo]phenyl]methyl]phenyl]azo]-3-hydroxy-, [(4-methylphenyl)methylene]hydrazide (9CI)  
 MF C69 H50 N10 O4



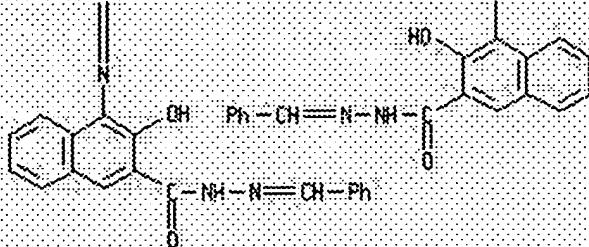
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 2-Naphthalenecarboxylic acid, 4,4'-{[2-[4-[2-[4-[(2-hydroxy-3-[(phenylmethylene)hydrazino]carbonyl)-1-naphthalenyl]azol]phenyl]ethenyl]phenyl]-2H-1,2,3-triazole-4,5-diyl}bis(4,1-phenyleneazo)bis[3-hydroxy-, bis[(phenylmethylene)hydrazide] (9CI)  
 MF C82 H57 N15 O6



PAGE 2-A



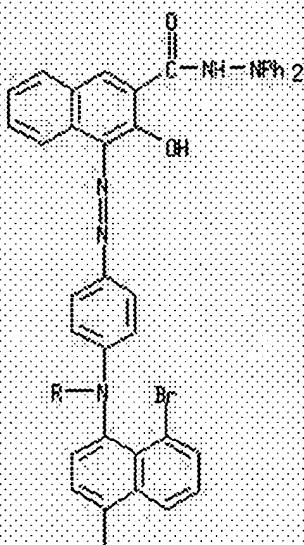
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

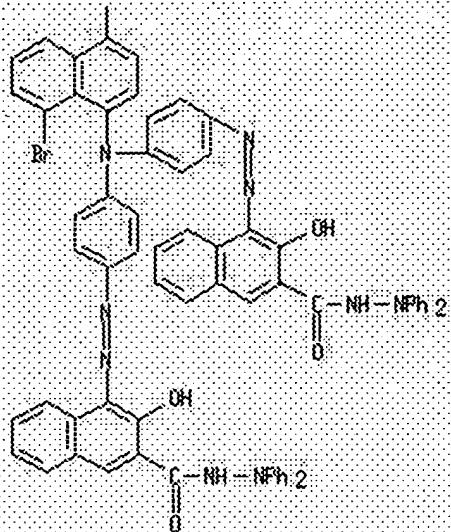
IN 2-Naphthalenecarboxylic acid, 4,4',4'',4'''-[(5,5'-dibromo[1,1'-binaphthalene]-4,4'-diyl)bis[nitrilobis(4,1-phenyleneazo)]]]tetrakis[2-hydroxy-, tetrakis(2,2-diphenylhydrazide) (9CI)

MF C136 H94 Br2 N18 O8

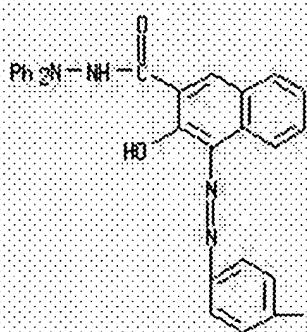
PAGE 1-A



PAGE 2-A

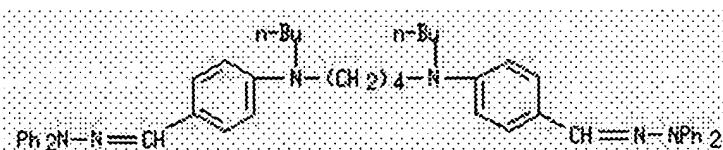


PAGE 3-A



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

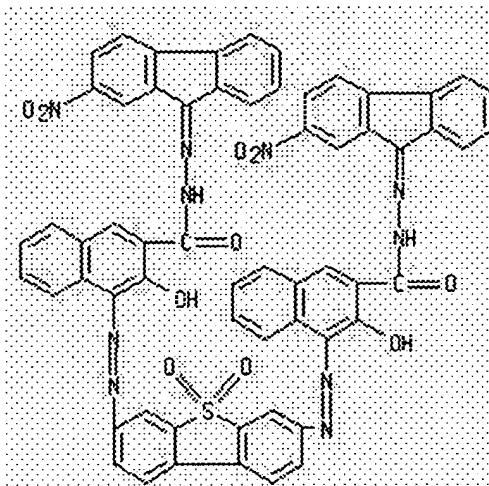
L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Benzaldehyde, 4,4'-(1,4-butanediylbis(butylimino)]bis-,  
 bis(diphenylhydrazone) (9CI)  
 MF C50 H56 N6



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 2-Naphthalenecarboxylic acid, 4,4'-[{(5,5-dioxido-3,7-dibenzothiophenediyl)bis(azo)]bis[3-hydroxy-, bis[(2-nitro-9H-fluoren-9-ylidene)hydrazide] (9CI)  
 MF C60 H34 N10 O10 S

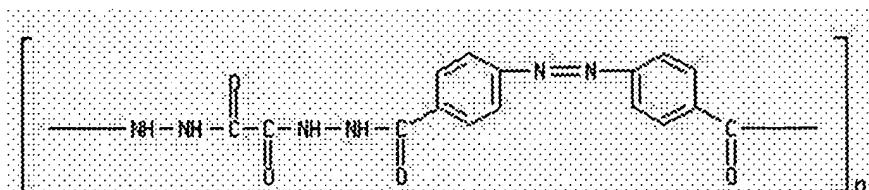


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

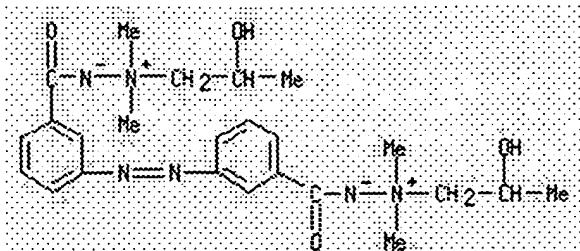
L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Poly[hydrazo(1,2-dioxo-1,2-ethanediyl)hydrazocarbonyl-1,4-phenyleneazo-1,4-phenylene carbonyl] (9CI)  
 MF (C16 H12 N6 O4)n  
 CI PMS

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*



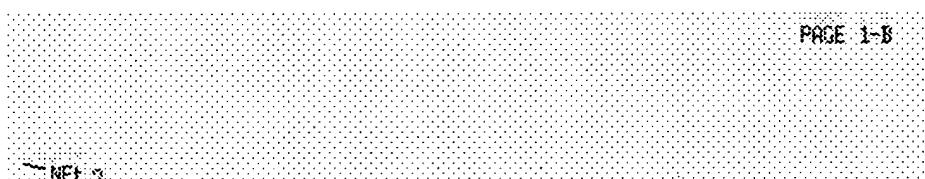
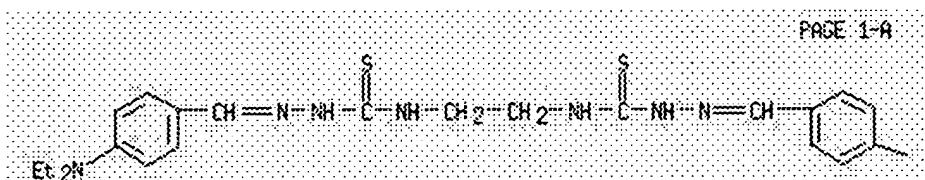
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Hydrazinium, 2,2'-[azobis(3,1-phenylene carbonyl)]bis[1-(2-hydroxypropyl)-1,1-dimethyl-, bis(inner salt) (9CI)  
 MF C24 H34 N6 O4



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Hydrazinecarbothioamide, N,N'-1,2-ethanediylbis[2-[(4-  
 (diethylamino)phenyl)methylene]- (9CI)  
 MF C26 H38 N8 S2

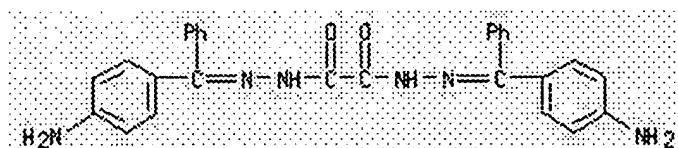


~NET 2

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

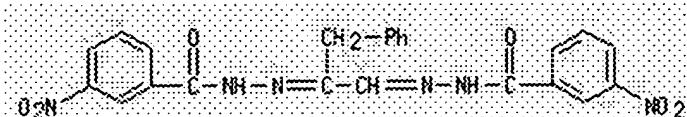
L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxalic acid, bis[(p-amino- $\alpha$ -phenylbenzylidene)hydrazide] (8CI)  
 MF C28 H24 N6 O2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN INDEX NAME NOT YET ASSIGNED  
 MF C23 H18 N6 O6

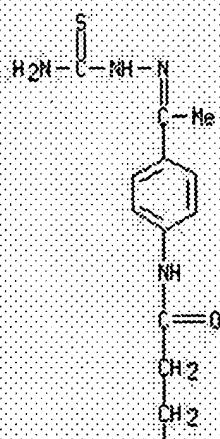


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

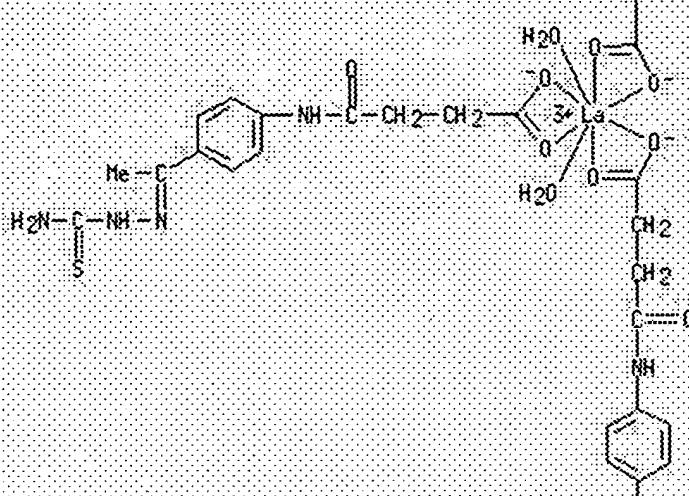
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Lanthanum, tris[4-[(4-[(1-[(aminothioxomethyl)hydrazone]ethyl)phenyl]amino)-4-oxobutanoato-O1,O1']diaqua- (9CI)  
 MF C39 H49 La N12 O11 S3  
 CI CCS, COM

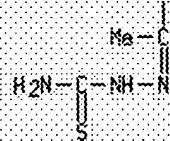
PAGE 1-A



PAGE 2-A

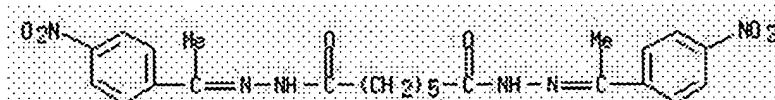


PAGE 3-A



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Heptanedioic acid, bis[[1-(4-nitrophenyl)ethylidene]hydrazide] (9CI)  
 MF C23 H26 N6 O6



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=&gt; log h

COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
4.30	4.51

FULL ESTIMATED COST

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 06:58:44 ON 20 SEP 2005

STN Columbus

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'REGISTRY' AT 07:03:03 ON 20 SEP 2005  
FILE 'REGISTRY' ENTERED AT 07:03:03 ON 20 SEP 2005  
COPYRIGHT (C) 2005 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.30	4.51

=>  
Uploading structure  
screen 1996

L9 SCREEN CREATED

=>  
L10 STRUCTURE UPLOADED

=>  
L11 QUE L10 AND L9

=> s sam 111  
SAMPLE SEARCH INITIATED 07:03:38 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 11363 TO ITERATE

17.6% PROCESSED 2000 ITERATIONS 1 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

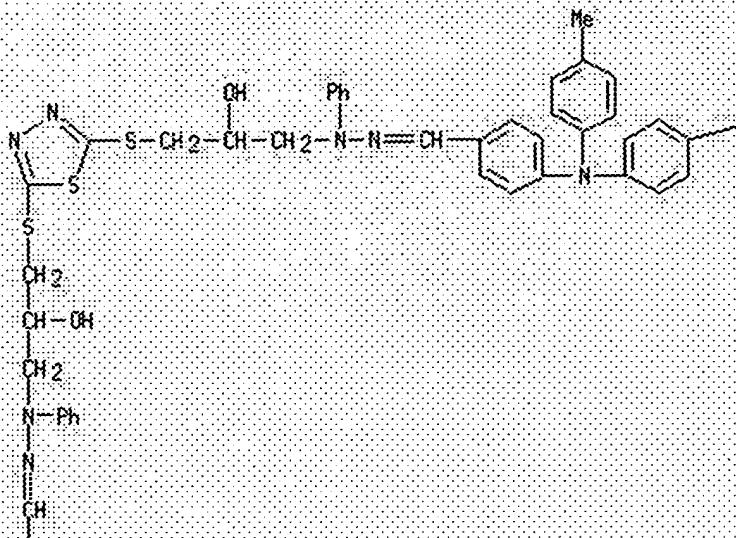
FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 220873 TO 233647  
PROJECTED ANSWERS: 1 TO 256

L12 1 SEA SSS SAM L10 AND L9

=> d scan

L12 1 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
IN Benzaldehyde, 4-[bis(4-methylphenyl)amino]-, 1,3,4-thiadiazole-2,5-  
diylbis[thio(2-hydroxy-3,1-propanediyl)]bis(phenylhydrazone) (9CI)  
MF C62 H60 N8 O2 S3

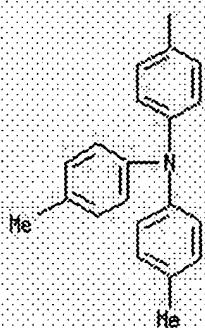
PAGE 1-A



PAGE 1-B

- Na

PAGE 2-A



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> s 112 sss full  
 FULL SEARCH INITIATED 07:04:46 FILE 'REGISTRY'  
 FULL SCREEN SEARCH COMPLETED - 228755 TO ITERATE

100.0% PROCESSED 228755 ITERATIONS  
 SEARCH TIME: 00.00.05

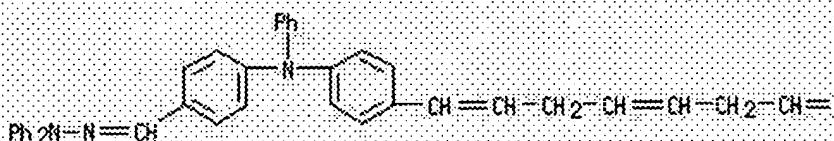
201 ANSWERS

L13 201 SEA SSS FUL L10 AND L9

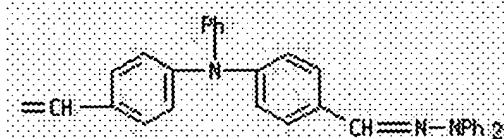
=&gt; d scan

L13 201 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Benzaldehyde, 4,4'-[1,4,7-octatriene-1,8-diylbis[4,1-phenylene(phenylimino)]]bis-, bis(diphenylhydrazone) (9CI)  
 MF C70 H58 N6

PAGE 1-A



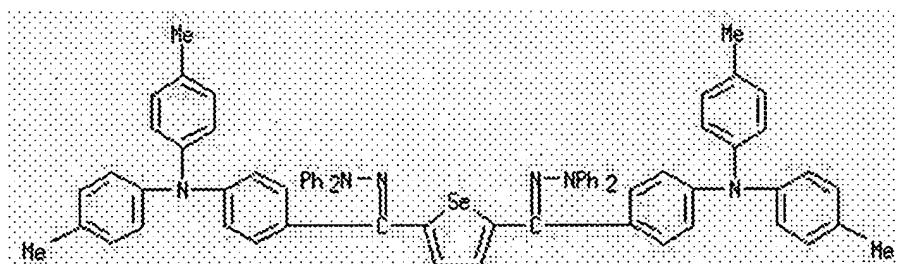
PAGE 1-B



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L13 201 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Methanone, 2,5-selenophenediylbis[[4-[bis(4-methylphenyl)amino]phenyl]-, bis(diphenylhydrazone) (9CI)  
 MF C70 H58 N6 Se

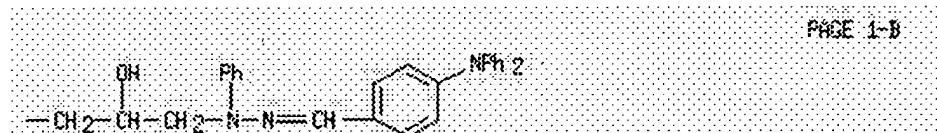
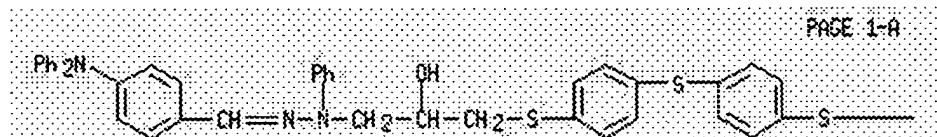


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L13 201 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Benzaldehyde, 4-(diphenylamino)-, [thiobis[4,1-phenylenethio(2-hydroxy-3,1-

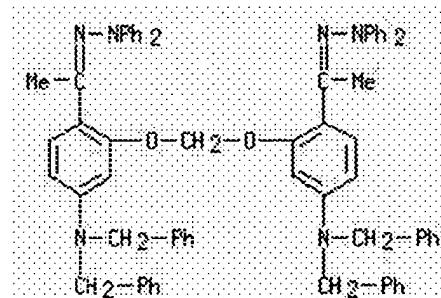
propanediyl)]bis(phenylhydrazone) (9CI)  
 MF C68 H60 N6 O2 S3



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L13 201 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Ethanone, 1,1'-[methylenebis[oxy[4-[bis(phenylmethyl)amino]-2,1-phenylene]]bis-, bis(diphenylhydrazone) (9CI)  
 MF C69 H62 N6 O2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1) fil stnguide  
 'FIL STNGUIDE' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".  
 HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> fil stnguide  
 COST IN U.S. DOLLARS  
 FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
169.93	170.14

STN Columbus

FILE 'STNGUIDE' ENTERED AT 07:09:25 ON 20 SEP 2005  
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE  
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Sep 16, 2005 (20050916/UP).

COST IN U.S. DOLLARS		SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST		0.06	170.20

FILE 'REGISTRY' ENTERED AT 07:09:52 ON 20 SEP 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 SEP 2005 HIGHEST RN 863478-08-4  
DICTIONARY FILE UPDATES: 19 SEP 2005 HIGHEST RN 863478-08-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> save l13 a749171/a  
ANSWER SET L13 HAS BEEN SAVED AS 'A749171/A'

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.43	170.63

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 07:10:11 ON 20 SEP 2005

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'REGISTRY' AT 07:25:07 ON 20 SEP 2005  
FILE 'REGISTRY' ENTERED AT 07:25:07 ON 20 SEP 2005

## STN Columbus

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.43	170.63

=>  
Uploading structure  
screen 1996

L14 SCREEN CREATED

=>  
L15 STRUCTURE UPLOADED

=>  
L16 QUE L15 AND L14

=> s sub=l13 sss ful l16  
FULL SUBSET SEARCH INITIATED 07:26:16 FILE 'REGISTRY'  
FULL SUBSET SCREEN SEARCH COMPLETED - 201 TO ITERATE

100.0% PROCESSED 201 ITERATIONS 21 ANSWERS  
SEARCH TIME: 00.00.01

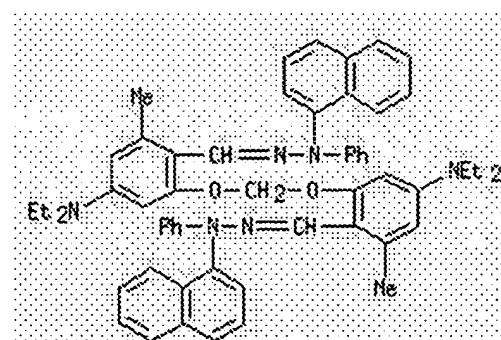
L17 21 SEA SUB=L13 SSS FUL L15 AND L14

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
CONNECT CHARGES	1.11	9.03
NETWORK CHARGES	0.18	1.56
SEARCH CHARGES	38.05	198.95
FULL ESTIMATED COST	39.34	209.54

IN FILE 'REGISTRY' AT 07:26:24 ON 20 SEP 2005

=&gt; d scan

L17 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
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bis(1-naphthalenylphenylhydrazone) (9CI)  
MF C57 H58 N6 O2

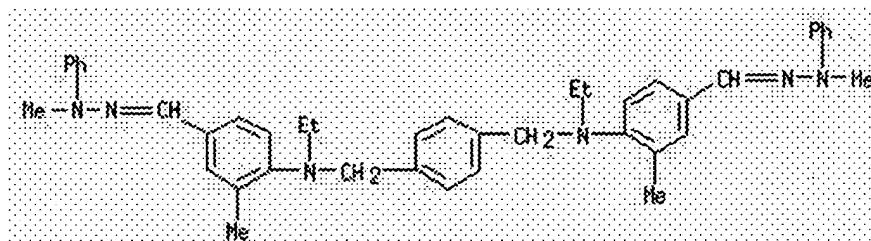


STN Columbus

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

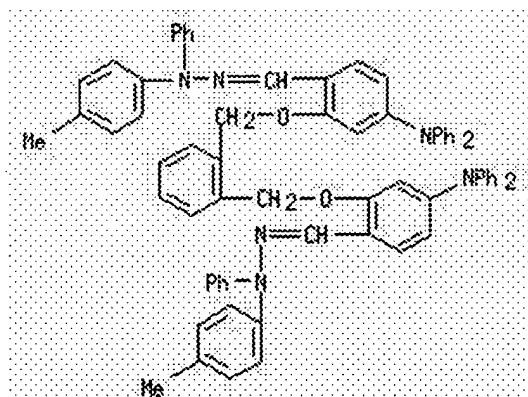
L17 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
IN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(ethylimino)]]bis[3-methyl-,  
bis(methylphenylhydrazone) (9CI)  
MF C42 H48 N6



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L17 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
IN Benzaldehyde, 2,2'-[1,2-phenylenebis(methylenoxy)]bis[4-(diphenylamino)-,  
bis[(4-methylphenyl)phenylhydrazone] (9CI)  
MF C72 H60 N6 O2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=> fil ca; s 117  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
40.20	210.40

STN Columbus

FILE 'CA' ENTERED AT 07:27:22 ON 20 SEP 2005  
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FILE COVERS 1907 - 15 Sep 2005 VOL 143 ISS 13  
FILE LAST UPDATED: 15 Sep 2005 (20050915/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

L18 10 L17

=> d fbib hitstr 1-10; fil stnguide

L18 ANSWER 1 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 141:233149 CA  
TI Organophotoreceptor with charge transport material having two hydrazone groups  
IN Tokarski, Zbigniew; Montrimas, Edmundas; Paulauskaite, Ingrida; Jubran, Nusrallab; Gaidelis, Valentas; Getautis, Vytautas  
PA Samsung Electronics Co., Ltd., S. Korea  
SO Eur. Pat. Appl., 26 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1452924	A1	20040901	EP 2004-251132	20040227
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK, HR			US 2003-451308P	P 20030228
				US 2003-749171	A 20031230
	US 2004170910	A1	20040902	US 2003-749171	20031230
				US 2003-451308P	P 20030228
	CN 1540764	A	20041027	CN 2004-10038757	20040228
				US 2003-451308P	P 20030228
				US 2003-749171	A 20031230
	JP 2004264855	A2	20040924	JP 2004-56692	20040301
				US 2003-451308P	P 20030228
				US 2003-749171	A 20031230

OS MARPAT 141:233149

IT 748789-21-1P 748789-22-2P 748789-23-3P  
748789-24-4P

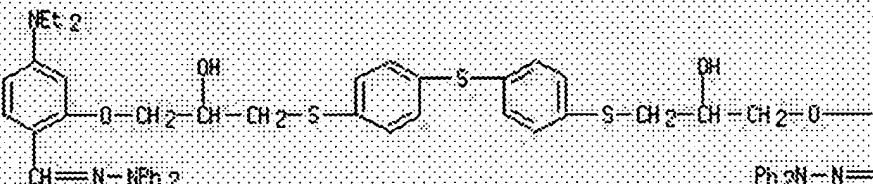
STN Columbus

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (organo photoreceptor with charge transport material having two hydrazone groups)

RN 748789-21-1 CA

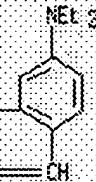
CN Benzaldehyde, 2,2'-[thiobis[4,1-phenylenethio(2-hydroxy-3,1-propanediyl)oxy]]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)

PAGE 1-A



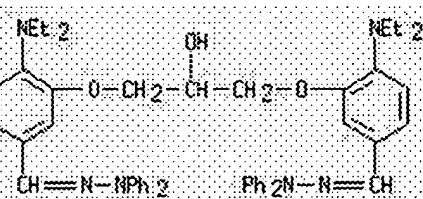
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PAGE 1-B



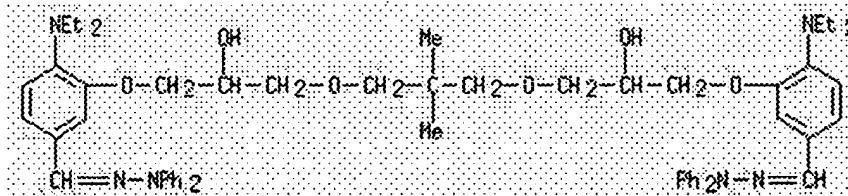
RN 748789-22-2 CA

CN Benzaldehyde, 3,3'-[{(2-hydroxy-1,3-propanediyl)bis(oxy)}bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 748789-23-3 CA

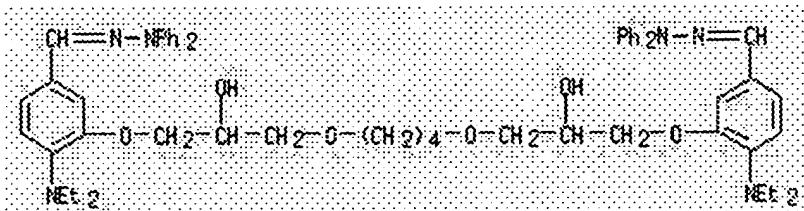
CN Benzaldehyde, 3,3'-[{(2,2-dimethyl-1,3-propanediyl)bis(oxy)(2-hydroxy-3,1-propanediyl)oxy}]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 748789-24-4 CA

CN Benzaldehyde, 3,3'-[1,4-butanediylbis(oxy)(2-hydroxy-3,1-propanediyl)oxy]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)

INDEX NAME)



L18 ANSWER 2 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 141:173964 CA  
 TI Preparation of organophotoreceptors with charge transport materials having two linked hydrazone groups  
 IN Tokarski, Zbigniew; Jubran, Nusrallah; Getautis, Vytautas; Daskeviciene, Maryte; Gaidelis, Valentas; Jankauskas, Vygintas  
 PA Samsung Electronics Co., Ltd., S. Korea  
 SO Eur. Pat. Appl., 25 pp.

CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1443039	A1	20040804	EP 2004-250289	20040121
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2003-443919P P 20030131				
US 2003-749174 A 20031230				
US 2004152002	A1	20040805	US 2003-749174	20031230
US 2003-443919P P 20030131				
JP 2004234005	A2	20040819	JP 2004-20899	20040129
US 2003-443919P P 20030131				
US 2003-749174 A 20031230				
CN 1538246	A	20041020	CN 2004-10028207	20040130
US 2003-443919P P 20030131				
US 2003-749174 A 20031230				

OS MARPAT 141:173964

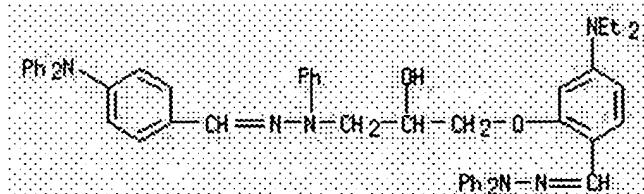
IT 688008-07-3P 688008-09-5P 688008-10-8P

688008-11-9P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of organophotoreceptors with charge transport materials having two linked hydrazone groups)

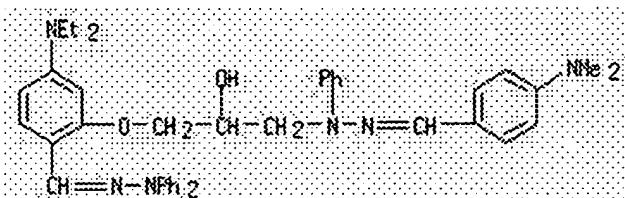
RN 688008-07-3 CA

CN Benzaldehyde, 4-(diethylamino)-2-[3-[[4-(diphenylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy-, diphenylhydrazone (9CI) (CA INDEX NAME)



RN 688008-09-5 CA

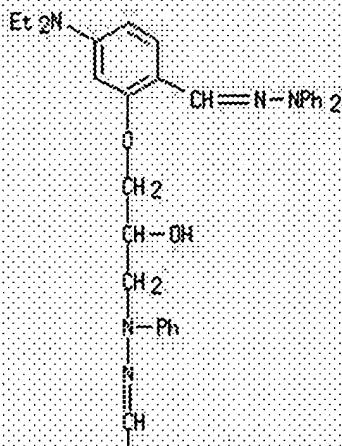
CN Benzaldehyde, 4-(diethylamino)-2-[3-[[4-(dimethylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy-, diphenylhydrazone (9CI) (CA INDEX NAME)



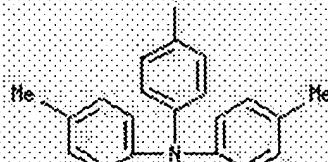
RN 688008-10-8 CA

CN Benzaldehyde, 2-[3-[[4-[bis(4-methylphenyl)amino]phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy-4-(diethylamino)-, diphenylhydrazone (9CI) (CA INDEX NAME)

PAGE 1-A

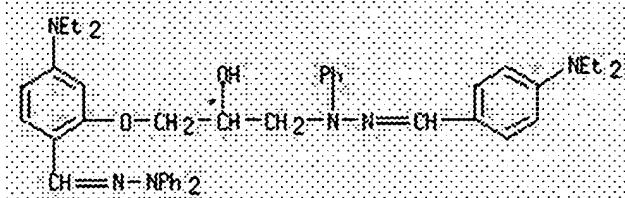


PAGE 2-A



RN 688008-11-9 CA

CN Benzaldehyde, 4-(diethylamino)-2-[3-[[4-(diethylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy-, diphenylhydrazone (9CI) (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 140:397343 CA  
TI Organophotoreceptor with charge transport compound with hydrazone groups  
IN Tokarski, Zbigniew; Montrimas, Edmundas; Paulauskaite, Ingrida; Law, Kam W.; Jubran, Nusrallah; Gaidelis, Valentas; Jankauskas, Vygintas; Getautis, Vytautas

PA Samsung Electronics Co., Ltd., S. Korea

SO Eur. Pat. Appl., 32 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1418469	A2	20040512	EP 2003-256699	20031023
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		R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK	US 2002-421182P	P 20021028
		US 2004106054	A1	US 2003-644547	20030820
				US 2002-421182P	P 20021028
		JP 2004151725	A2	JP 2003-367665	20031028
				US 2002-421182P	P 20021028

OS MARPAT 140:397343

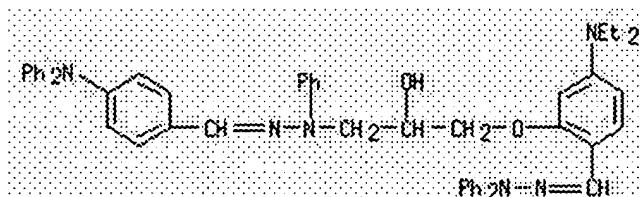
IT 688008-07-3P 688008-09-5P 688008-10-8P

688008-11-9P

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(electrophotog. organo-photoreceptor with charge transport compd. with hydrazone groups)

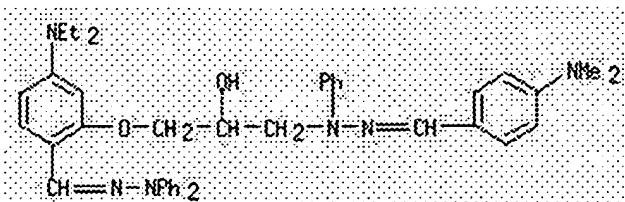
RN 688008-07-3 CA

CN Benzaldehyde, 4-(diethylamino)-2-[3-[[4-(diphenylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy-, diphenylhydrazone (9CI) (CA INDEX NAME)



RN 688008-09-5 CA

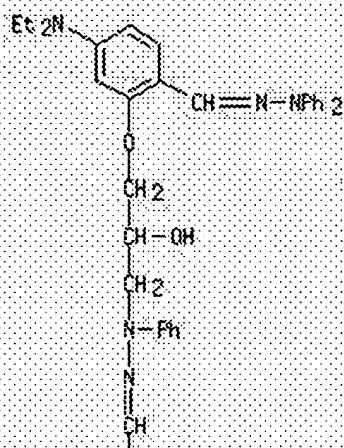
CN Benzaldehyde, 4-(diethylamino)-2-[3-[[4-(dimethylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy-, diphenylhydrazone (9CI) (CA INDEX NAME)



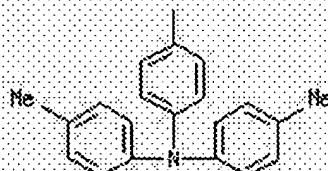
RN 688008-10-8 CA

CN Benzaldehyde, 2-[3-[[[4-[(diethylamino)methyl]phenyl]methylene]phenyl]hydrazino]-2-hydroxypropanoate, diethylhydrazone (9CI) (CA INDEX NAME)

PAGE 1-A

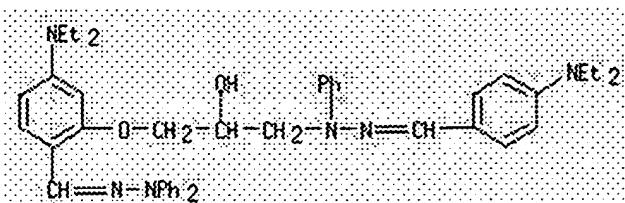


PAGE 2-A



RN 688008-11-9 CA

CN Benzaldehyde, 4-(diethylamino)-2-[3-[[[4-(diethylamino)phenyl]methylene]phenyl]hydrazino]-2-hydroxypropanoate, diethylhydrazone (9CI) (CA INDEX NAME)



L18 ANSWER 4 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 129:195773 CA

TI Electrophotographic photoreceptor using novel hydrazone-type charge-transporting agent

IN Kurota, Masami

PA Fuji Electric Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 10207094	A2	19980807	JP 1997-6160	19970117
			JP 1997-6160	19970117

OS MARPAT 129:195773

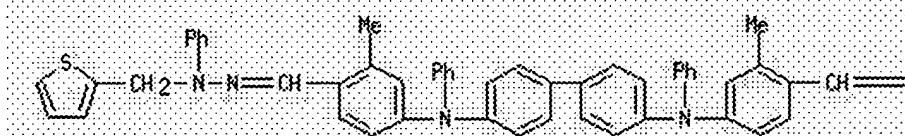
IT 211635-06-2

RL: TEM (Technical or engineered material use); USES (Uses)  
(electrophotog. photoconductor using hydrazone charge-transporting agent)

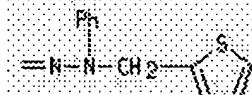
RN 211635-06-2 CA

CN Benzaldehyde, 4,4'-[[(1,1'-biphenyl)-4,4'-diylbis(phenylimino)]bis[2-methyl-, bis[phenyl(2-thienylmethyl)hydrazone] (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L18 ANSWER 5 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 118:136179 CA

TI Electrophotographic photoreceptor

IN Murayama, Tetsuo; Ono, Hitoshi; Saita, Atsuo; Watabe, Sumiko

PA Mitsubishi Kasei Corp., Japan

SO Eur. Pat. Appl., 58 pp.

CODEN: EPXXDW

DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 511664	A1	19921104	EP 1992-107347	19920429
EP 511664	B1	19961106		
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			JP 1991-99112	A 19910430
			JP 1991-111943	A 19910516
			JP 1991-172791	A 19910712
JP 04328753	A2	19921117	JP 1991-99112	19910430
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JP 2998280	B2	20000111		
JP 05019512	A2	19930129	JP 1991-172791	19910712
JP 2956288	B2	19991004		
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			JP 1991-111943	A 19910516
			JP 1991-172791	A 19910712
US 5284728	A	19940208	US 1992-876085	19920430
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			JP 1991-111943	A 19910516
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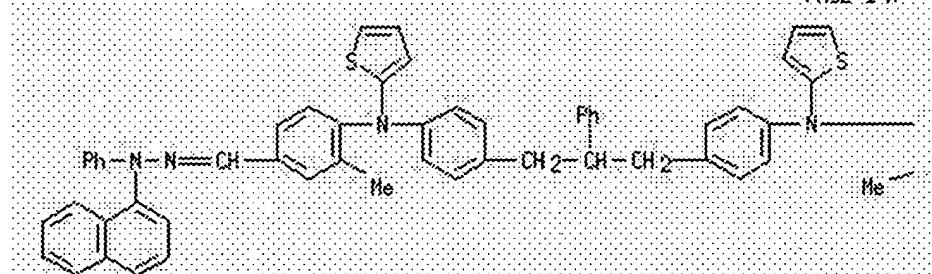
RL: USES (Uses)

(electrophotog. photoreceptor with photoensitive layer contg., for high-sensitivity and small residual potential)

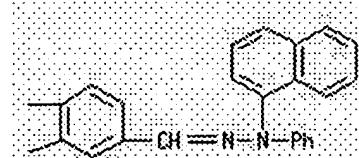
RN 146351-24-8 CA

CN Benzaldehyde, 4,4'-[ (2-phenyl-1,3-propanediyl)bis[4,1-phenylene(2-thienylimino)]]bis[3-methyl-, bis(1-naphthalenylphenylhydrazone) (9CI) (CA INDEX NAME)

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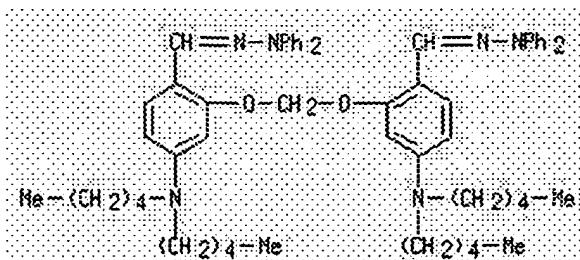


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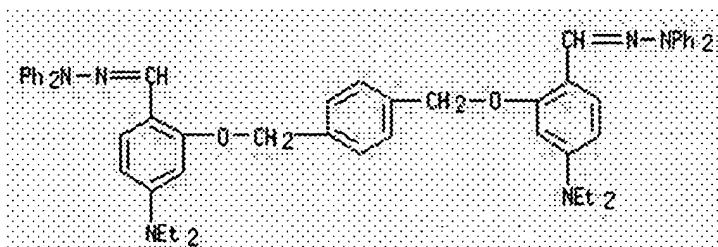
RN 146351-25-9 CA

CN Benzaldehyde, 2,2'-(methylenebis(oxy))bis[4-(dipentylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



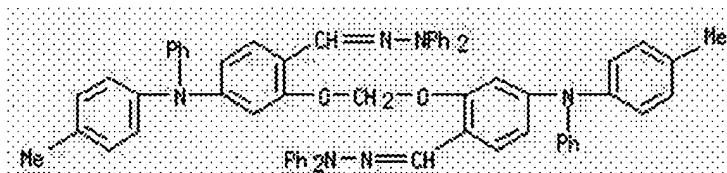
RN 146351-26-0 CA

CN Benzaldehyde, 2,2'-(1,4-phenyleneoxy)bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



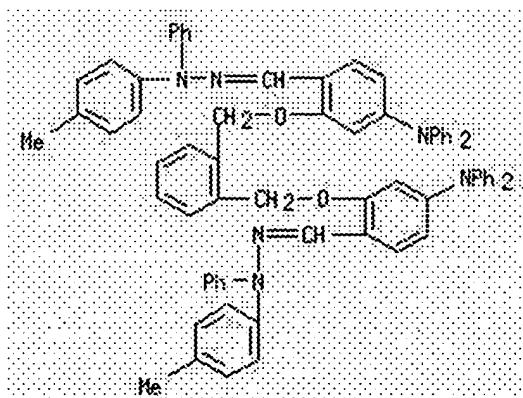
RN 146351-27-1 CA

CN Benzaldehyde, 2,2'-(methylenebis(oxy))bis[4-[(4-methylphenyl)phenylamino]-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 146351-28-2 CA

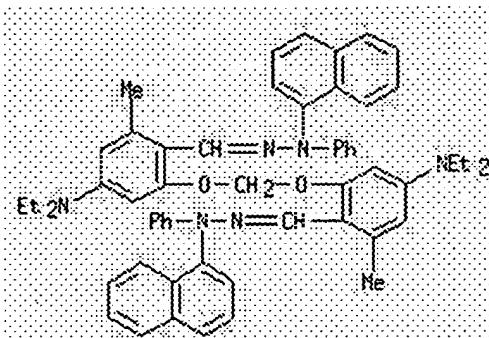
CN Benzaldehyde, 2,2'-(1,2-phenyleneoxy)bis[4-(diphenylamino)-, bis[(4-methylphenyl)phenylhydrazone] (9CI) (CA INDEX NAME)



RN 146351-30-6 CA

CN Benzaldehyde, 2,2'-(methylenebis(oxy))bis[4-(diethylamino)-6-methyl-,

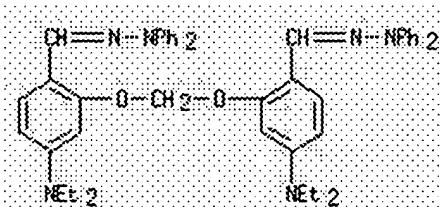
bis(1-naphthalenylphenylhydrazone) (9CI) (CA INDEX NAME)



IT 146351-06-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and application of, in electrophotog. photoreceptor  
 photosensitive layer)

RN 146351-06-6 CA

CN Benzaldehyde, 2,2'-[methylenebis(oxy)]bis[4-(diethylamino)-,  
 bis(diphenylhydrazone) (9CI) (CA INDEX NAME)

L18 ANSWER 6 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 109:160521 CA

TI Electrophotographic photoreceptor using phthalocyanine dye and  
 bishydrazone compound in the photoconductor layer

IN Horie, Seiji; Makino, Naonori; Sato, Hideo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63048552	A2	19880301	JP 1986-191774	19860818
	US 4814245	A	19890321	US 1987-86449	19870818
				JP 1986-191774	A 19860818

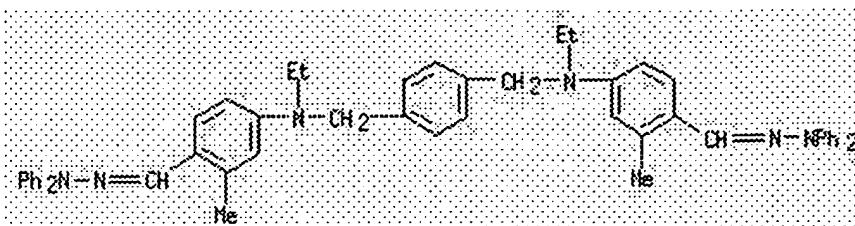
IT 101158-43-4

RL: USES (Uses)

(charge-transporting layer contg., for electrophotog. photoreceptor)

RN 101158-43-4 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(ethylimino)]]bis[2-methyl-,  
 bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



L18 ANSWER 7 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 104:196950 CA

TI Electrophotographic materials

IN Ehashi, Shigeyuki; Tamura, Shinichi; Suda, Yasumasa; Mikosaka, Michiya

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60237453	A2	19851126	JP 1984-91844	19840510
	JP 04024698	B4	19920427	JP 1984-91844	19840510

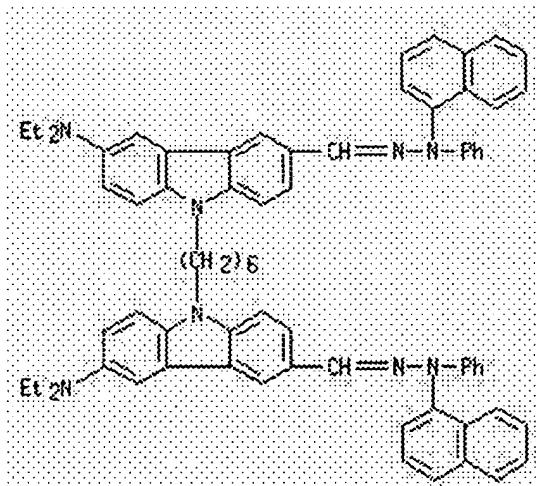
IT 101841-37-6

RL: USES (Uses)

(electrophotog. photosensitive layer contg., for improved clarity and sensitivity)

RN 101841-37-6 CA

CN 9H-Carbazole-3-carboxaldehyde, 9,9'-(1,6-hexanediy1)bis[6-(diethylamino)-, bis(1-naphthalenylphenylhydrazone) (9CI) (CA INDEX NAME)



L18 ANSWER 8 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 104:177654 CA

TI Electrophotographic photoreceptors

IN Horie, Seiji; Watarai, Osamu; Makino, Naonori; Sato, Hideo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

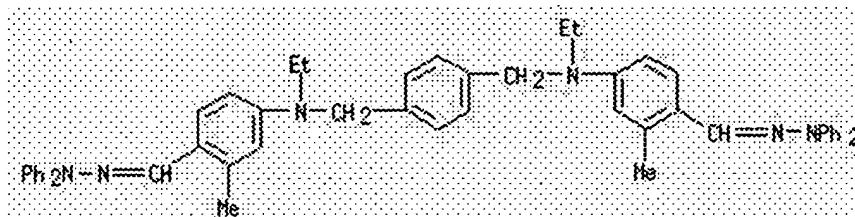
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 60196767	A2	19851005	JP 1984-53183 JP 1984-53183	19840319 19840319

IT 101158-43-4

RL: USES (Uses)

(electrophotog. photoconductor with charge-generating layer contg., for  
highly charged potential and low residual charge)

RN 101158-43-4 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(ethylimino)]]bis[2-methyl-,  
bis(diphenylhydrazone) (9CI) (CA INDEX NAME)

L18 ANSWER 9 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 104:139257 CA

TI Electrophotographic photoreceptors

IN Watarai, Osamu; Horie, Seiji

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

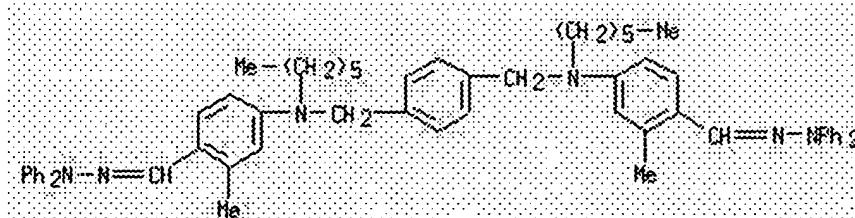
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 60186847	A2	19850924	JP 1984-42370	19840306
JP 04005382	B4	19920131		
US 4594304	A	19860610	US 1985-708461 JP 1984-42370	19850305 A 19840306

IT 101183-43-1

RL: USES (Uses)

(electrophotog. charge carrier-transporting agent)

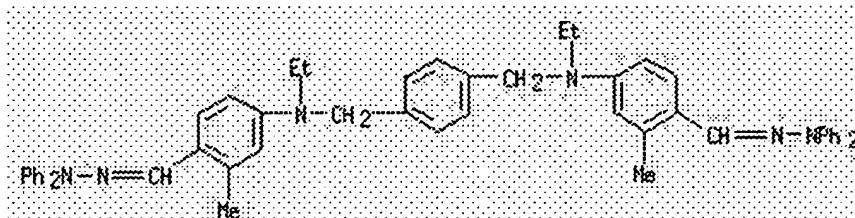
RN 101183-43-1 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(hexylimino)]]bis[2-methyl-,  
bis(diphenylhydrazone) (9CI) (CA INDEX NAME)

IT 101158-43-4P

RL: PREP (Preparation)

(prepn. of, as electrophotog. charge carrier-transporting agent)  
 RN 101158-43-4 CA  
 CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(ethylimino)]]bis[2-methyl-,  
 bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



L18 ANSWER 10 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 102:195119 CA

TI Electrophotographic photoreceptor

PA Mitsubishi Paper Mills, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 59223434	A2	19841215	JP 1983-98888	19830602
JP 03009461	B4	19910208	JP 1983-98888	19830602

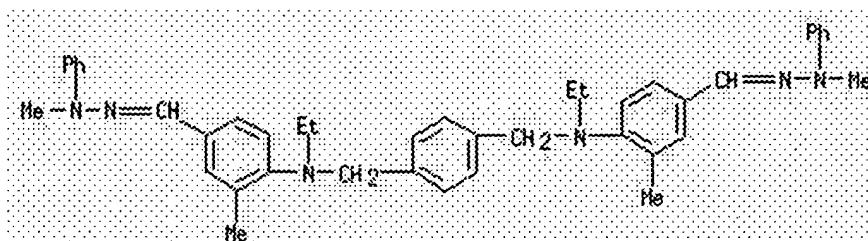
IT 96222-71-8P 96222-72-9P

RL: PREP (Preparation)

(prepn. of, as electrophotog. charge transport agent)

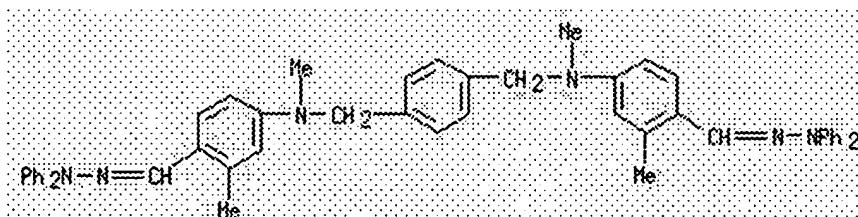
RN 96222-71-8 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(ethylimino)]]bis[3-methyl-,  
 bis(methylphenylhydrazone) (9CI) (CA INDEX NAME)



RN 96222-72-9 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(ethylimino)]]bis[2-methyl-,  
 bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



STN Columbus

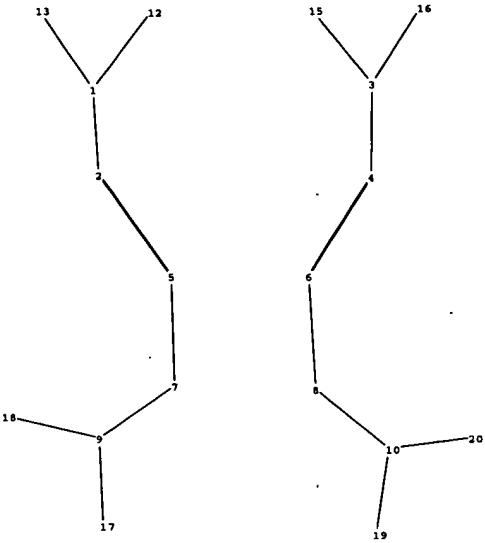
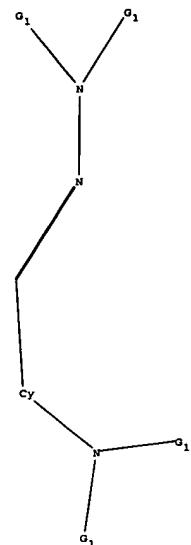
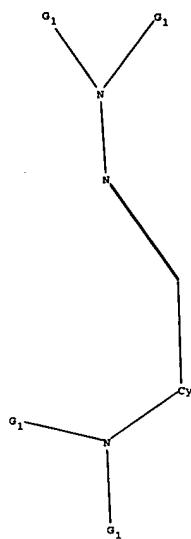
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FULL ESTIMATED COST	32.83	243.23

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FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Sep 16, 2005 (20050916/UP).

=>

L13



chain nodes :

1 2 3 4 5 6 7 8 9 10 12 13 15 16 17 18 19 20

chain bonds :

1-2 1-12 1-13 2-5 3-4 3-16 3-15 4-6 5-7 6-8 7-9 8-10 9-17 9-18 10-19 10-20

exact/norm bonds :

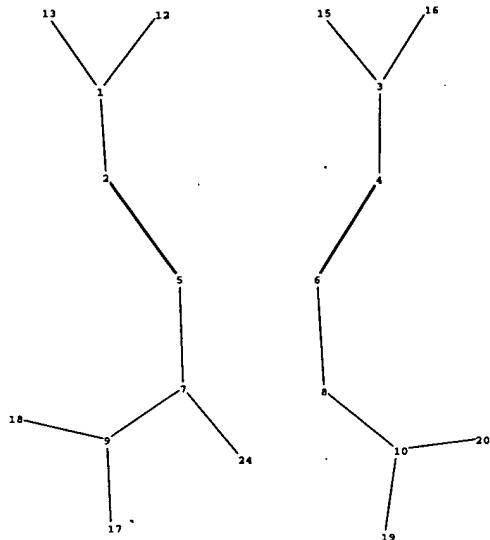
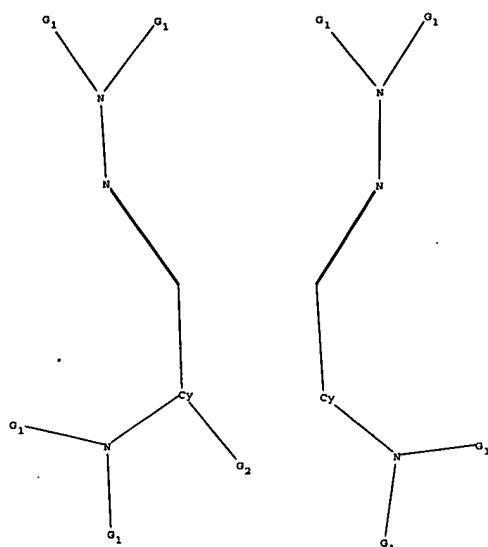
1-2 1-12 1-13 2-5 3-4 3-16 3-15 4-6 5-7 6-8 7-9 8-10 9-17 9-18 10-19 10-20

G1:Cb,Hy,Ak

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom 9:CLASS 10:CLASS  
12:CLASS 13:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS

716



chain nodes :

1 2 3 4 5 6 7 8 9 10 12 13 15 16 17 18 19 20 24

chain bonds :

1-2 1-12 1-13 2-5 3-4 3-16 3-15 4-6 5-7 6-8 7-9 7-24 8-10 9-17 9-18 10-19  
10-20

exact/norm bonds :

1-2 1-12 1-13 2-5 3-4 3-16 3-15 4-6 5-7 6-8 7-9 7-24 8-10 9-17 9-18 10-19  
10-20

G1:Cb,Hy,Ak

G2:C,O,S,N,Cy

Hydrogen count :

5:&gt;= minimum 1 6:&gt;= minimum 1

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom 9:CLASS 10:CLASS  
12:CLASS 13:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 24:CLASS